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Notice of Allowability	Application No.	Applicant(s)	
	10/025,673	KOBAYASHI ET AL.	
	Examiner	Art Unit	
	Anh T.N. Vo	2861	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to IDS filed 3/08/2005.
2. ☒ The allowed claim(s) is/are 1-13 and 18-48.
3. ☒ The drawings filed on 04 April 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>3/08/2005</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to an applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The following changes have been made in a subject of the application to place the claims in a condition for allowance:

Claims

In claim 22:

- Line 9, changed "a" to --an-- at first occurrence.

In claim 34:

- Line 2, inserted "steps of" after --comprising--.

The above change was made to place the application in better condition for allowance.

REASONS FOR ALLOWANCE

The following is an Examiner's Statement of Reasons for Allowance:

Claims 1-10 and 21 are allowed because none of the prior art references of record teaches an ink jet type recording apparatus comprising a control circuit, wherein, in case in which the ink cartridge is attached to a cartridge holder, the control circuit decides whether or not an ink type information to be used in the recording apparatus has already been set, and wherein, in case in which the ink type information has not yet been set, the control circuit sets the ink type information so that type of ink accommodated in the attached ink cartridge can be used in the combination as claimed.

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Claims 11-13 are allowed because none of the prior art references of record teaches a method of setting ink type information in an ink jet type recording apparatus comprising steps of ascertaining whether or not ink type information about ink to be used in the recording apparatus that has already been set and of setting ink corresponding to the obtained ink type information as ink that can be used in the recording apparatus, if it is decided that the ink type information has not yet set at the setting ascertaining step and it is decided that all the ink type information sent from the ink cartridges are identical at the ink type information comparing step in the combination as claimed.

Claim 18 is allowed because none of the prior art references of record teaches an ink jet type recording apparatus comprising a CPU that is operatively connected to the recording head and communicating with the holder; a printer memory that stores therein an operation sequence condition, a recording head driving condition and an image processing condition each being stored by the ink type basis, a printer memory having a memory area into which a specific one of ink types, to be used in the recording apparatus can be written, and the printer memory storing therein a program to be executed for writing the specific ink type when all of the ink cartridges contain ink of the same ink type and when the specific one of ink type has not yet been written in the printer memory, and for selecting the operation sequence condition, recording head driving condition and image processing condition corresponding to the specific ink type in the combination as claimed.

Claim 19 is allowed because none of the prior art references of record teaches an ink cartridge comprising an ink cartridge memory storing therein ink type information indicative of a type of the ink, and ink type setting permission information specifying that the ink cartridge constitutes an ink cartridge for set up, wherein the ink type setting permission information is written in a memory area of the ink cartridge memory, from which the ink type setting permission information is inhibited from being read again or is erased once the ink type setting permission information is read and the ink cartridge is used as the set-up ink cartridge in the combination as claimed.

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Claim 20 is allowed because none of the prior art references of record teaches a memory medium storing there in a program to be executed for performing a method comprising steps of writing a specific ink type into a memory area of a printer memory when all of ink cartridges attached to a printer and of selecting operation sequence condition, recording head driving condition and image processing condition corresponding to the written ink type in the combination as claimed.

Claims 22-33 are allowed because none of the prior art references of record teaches an ink jet type recording apparatus comprising a control circuit that determines whether or not the specific ink type information has already been stored in an ink type memory by analyzing the ink type memory and an identifying system of an ink cartridge and when specific ink type information has not yet been stored in the ink type memory; the control circuit stores the ink type information obtained from the identifying system as the specific ink type information in the ink type memory in the combination as claimed.

Claims 34-39 are allowed because none of the prior art references of record teaches a method of setting ink type information in a recording apparatus, comprising steps of obtaining ink type information from each of ink cartridges attached to a cartridge holder of the recording apparatus based on an identifying system of each of the ink cartridges and of using the obtained ink type information as the specific ink type information after determining that the specific ink type information has not yet been set in the combination as claimed.

Claims 40-45 are allowed because none of the prior art references of record teaches an ink cartridge comprising an indicating system that indicates ink type information indicative of a type of the ink contained in the ink container and ink type setting permission information that indicates whether or not the recording apparatus is permitted to utilize the ink type information to set the ink type for the recording apparatus and wherein the recording apparatus does not use the ink type information to set the ink type for the recording apparatus unless the ink type setting permission information permits the recording apparatus to utilize the ink type information to set the ink type in the combination as claimed.

Claims 46 and 48 are allowed because none of the prior art references of record teaches an ink jet type recording apparatus comprising a printer memory that communicates with a control circuit, wherein the printer memory stores operation sequence conditions respectively corresponding to a plurality of ink types, stores recording head driving conditions respectively corresponding to the plurality of ink types, and stores image processing conditions respectively corresponding to the plurality of ink types, wherein the printer memory stores specific ink type information corresponding to one of the plurality of ink types, wherein the printer memory stores a program, and wherein the control circuit reads the program from the printer memory and executes the program in the combination as claimed.

CONCLUSION

Any comments considered necessarily by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Anh Vo whose telephone number is (571) 272-2262. The examiner can normally be reached on Tuesday to Friday from 9:30 A.M. to 7:30 P.M..

The fax number of this Group 2800 is (703) 872-9306.



ANH T.N. VO
PRIMARY EXAMINER

March 29, 2005